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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/528,607	03/21/2005	Jeroen Anton Johan Leijten	260669	4040
	7590 08/21/200 ` & MAYER, LTD	EXAMINER		
TWO PRUDENTIAL PLAZA, SUITE 4900			ELLIS, RICHARD L	
180 NORTH STETSON AVENUE CHICAGO, IL 60601-6731			ART UNIT	PAPER NUMBER
			2183	
			MAIL DATE	DELIVERY MODE
			08/21/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/528,607	LEIJTEN ET AL.
Office Action Summary	Examiner	Art Unit
	Richard Ellis	2183
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perior. Failure to reply within the set or extended period for reply will, by statu. Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 1.136(a). In no event, however, may a reply be to divide apply and will expire SIX (6) MONTHS from the cause the application to become ABANDON	N. imely filed in the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on 30. This action is FINAL . 2b) ☑ The 3) ☐ Since this application is in condition for allow closed in accordance with the practice under	ris action is non-final.	
Disposition of Claims		
4) Claim(s) 1,2,4-8 and 13-18 is/are pending in 4a) Of the above claim(s) is/are withdr 5) Claim(s) 1,2,4-7,13-15 and 18 is/are allowed 6) Claim(s) 8,16 and 17 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and	rawn from consideration.	
Application Papers		
9) The specification is objected to by the Examir 10) The drawing(s) filed on is/are: a) according an applicant may not request that any objection to the Replacement drawing sheet(s) including the corresponding to the specific part of	ccepted or b) objected to by the e drawing(s) be held in abeyance. Section is required if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document copies of the priority document copies of the priority document copies of the certified copies of the priority document copies of the certified copies of the priority document copies of the certified copies of the priority document copies of the certified copies of the priority document copies of the certified copies of the priority document copies of the certified copies of the priority document copies of the pr	nts have been received. nts have been received in Applica iority documents have been receiv au (PCT Rule 17.2(a)).	tion No ved in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summar Paper No(s)/Mail I 5) Notice of Informal 6) Other:	Date

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REPLACEMENT OFFICE ACTION

This action replaces and withdraws the finality of the previous office action, mailed August 11, 2008.

- 1. Claims 1-2, 4-8 and 13-18 are presented for examination.
- 2. The drawings are objected to as failing to comply with 37 CFR § 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: IMU, UC₄, UC₀, UC₁, UC₂, UC₃, RF₂, RF₁, RF₀, CN, SQ, FU₂₀, FU₂₁, FU₂₂, DEC, TSC, IRN, ORN. Correction is required. This objection is maintained from the previous office action, paper number 20070517, mailed May 22, 2007.
- 3. The objection to the drawings above is maintained from the prior office action, mailed January 30, 2008. Applicant's response indicates that they are preparing replacement drawing sheets to correct the omission noted in the prior action. However, the above drawing objection must be maintained by the office until the replacement drawing sheets are submitted.
- 4. The following is a quotation of the appropriate paragraphs of 35 USC § 102 that form the basis for the rejections under this section made in this Office action:
 - A person shall be entitled to a patent unless --
 - (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 8 and 16-17 are rejected under 35 USC § 102(b) as being anticipated by Slavenburg, U.S. Patent 6,122,722.

Slavenburg first cited as a prior art reference in the office action mailed December 21, 2006.

Slavenburg taught (e.g. see figs. 1-11) the invention as claimed (as per claim 8), including a data processing ("DP") system comprising:

- A. storing input data in a register file (fig. 3, 403);
- B. processing data retrieved (401) from the register file (403) based on control signals ("CONTROL UNIT") generated from a set of instructions being executed in parallel ("IIR"), using a plurality of issue slots ("ISSUE 1" ... "ISSUE 3") controlled by a set of control words being generated from the set of instructions ("CONTROL UNIT"),

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and wherein each issue slot comprises a plurality of functional units ("CONST UNIT", "ALU, UNIT", "ALU, UNIT", "MUL UNIT", "FPU UNIT", "MEM UNIT"), and;

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- C. loading an immediate value into a dedicated issue slot ("CONST UNIT" in dependence upon a dedicated instruction (fig. 4, 403) comprising the immediate value ("CONSTANT FIELD").
- 6. As to claim 16, Slavenburg taught the dedicated issue slot was controlled (fig. 3, "CONTROL UNIT") to load the immediate value by a control word consisting of the immediate value (fig. 4, 403, "CONSTANT FIELD", fig. 7 "CONSTANT (PSEUDO UNIT 1 OUTPUT).
- 7. As to claim 17, Slavenburg taught executing the dedicated instruction (fig. 4, 403) with a single functional unit of the dedicated issue slot (fig. 3, "CONST UNIT").
- 8. Claims 8 and 16-17 are rejected under 35 USC 102(b) as being anticipated by Mehra, U.S. Patent 5,974,537.

Mehra was first cited as a prior art reference in the office action mailed December 21, 2006.

Mehra taught (e.g. see figs. 1-6) the invention as claimed (as per claim 8), including a data processing ("DP") system comprising:

- A. storing input data in a register file (fig. 5, 540);
- B. processing data retrieved from the register file based on control signals generated from a set of instructions being executed in parallel (520), using a plurality of issue slots controlled by a set of control words being generated from the set of instructions (521, 522, 523), and wherein each issue slot comprises a plurality of functional units (531, 532, 533, 534, 535, 536, 537), and;
- C. loading an immediate value (fig. 6, 610, "CONSTANT) into a dedicated issue slot (531) in dependence upon a dedicated instruction (610) comprising the immediate value ("CONST").
- 9. As to claim 16, Mehra taught the dedicated issue slot was controlled to load the immediate value ("CONSTANT") by a control word consisting of the immediate value (610).

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10. As to claim 17, Mehra taught executing the dedicated instruction with a single functional unit of the dedicated issue slot (531).

- 11. Claims 1-2, 4-7, 13-15 and 18 are allowable over the prior art of record. Cancellation of claims 8 and 16-17 in any response to this office action would result in allowance of the entire application.
- A shortened statutory period for response to this final action is set to expire THREE MONTHS from the date of this action. In the event a first response is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR § 1.136(a) will be calculated from the mailing date of the advisory action. In no event will the statutory period for response expire later than SIX MONTHS from the date of this final action.
- 13. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Richard Ellis whose telephone number is (571) 272-4165. The Examiner can normally be reached on Monday through Thursday from 7am to 5pm.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Eddie Chan, can be reached on (571) 272-4162. The fax phone number for the USPTO is: (703)872-9306.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (571) 272-2100.

/Richard Ellis/ Primary Examiner, Art Unit 2183 August 20, 2008